

~~Fig. 1~~ Fig. 1

12: BASE STATION APPARATUS
18(118, 218): TERMINAL APPARATUS

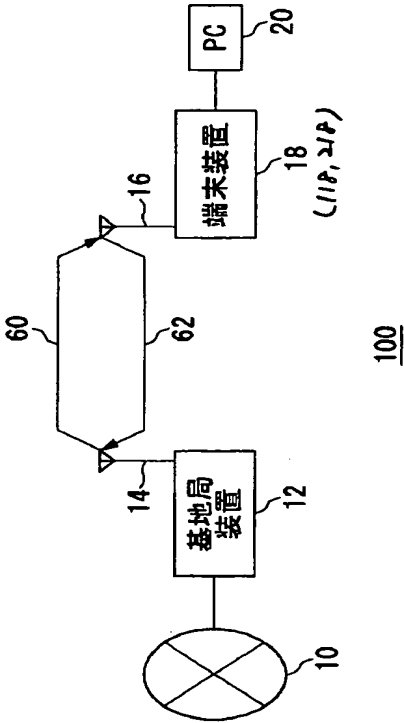


Fig. 2

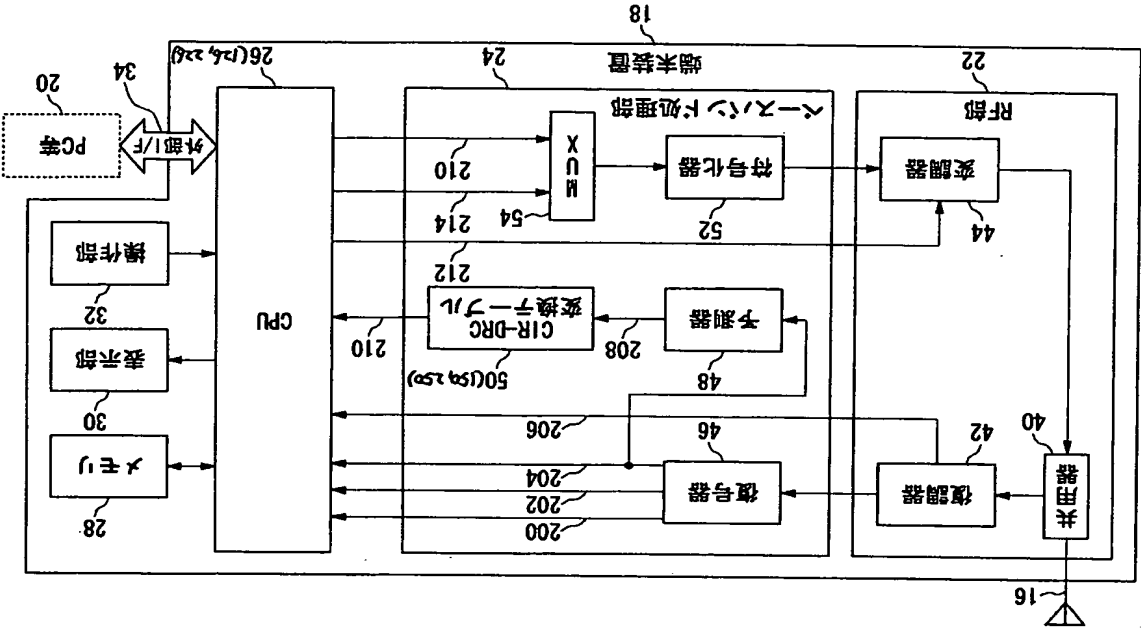


Fig. 2

18: TERMINAL APPARATUS

20: PC

22: RF UNIT

24: BASEBAND PROCESSING UNIT

28: MEMORY

30: DISPLAY UNIT

32: MANIPULATION UNIT

34: EXTERNAL IF

42: DEMODULATOR

44: MODULATOR

46: DECODER

48: PREDICTOR

50 (150, 250): CIR-DRC CONVERSION TABLE

52: CODER

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~~Fig. 3~~ Fig. 3

CIR(dB)	DRC(kbps)
-12.5	38.4
-9.5	76.8
-8.5	102.6
-6.5	153.6
-5.7	204.8
-4.0	307.2
-1.0	614.4
1.3	921.6
3.0	1228.8
7.2	1843.2
9.5	2457.6

Fig. 3

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Fig. 4

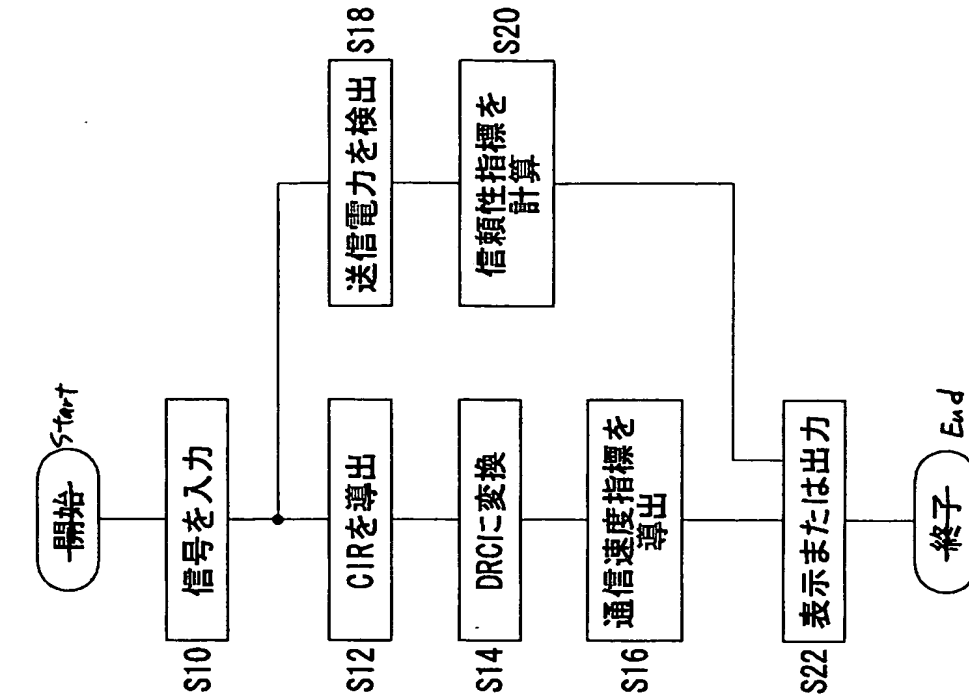


Fig. 4

- S10: INPUT OF SIGNAL
- S12: DERIVATION OF CIR
- S14: CONVERSION INTO DRC
- S16: DERIVATION OF COMMUNICATION RATE INDEX
- S18: DETECTION OF TRANSMISSION POWER
- S20: CALCULATION OF RELIABILITY INDEX
- S22: DISPLAY OR OUTPUT

Fig. 5

- ① TRANSMISSION POWER VALUE (dBm) - [MAXIMUM]
- ② [TRANSMISSION POWER VALUE] - [MAXIMUM]
- ③ INDEX VALUE

送信電力値 [dBm]	(送信電力値-最大送信可能電力値) [dB]	指標値
+22.5~	~0.5	0
+21.5~+22.5	0.5~1.5	1
+20.5~+21.5	1.5~2.5	2
+3.5~+4.5	18.5~19.5	19
~+3.5	19.5~	20

Fig. 6A

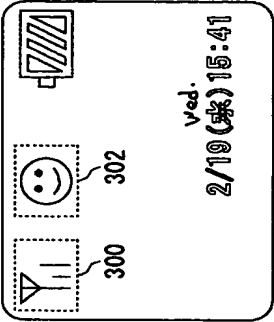


Fig. 6B

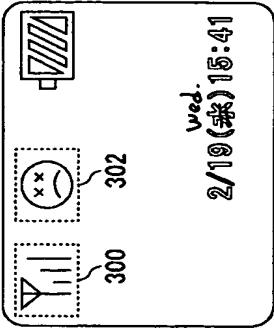


図7 Fig. 7

信頼性指標	速度指標	Out of Range	Out of Range
LED表示	遅い 速い 速い (1Mbps以上)	遅い 速い 速い (1Mbps以上)	遅い 速い 速い (1Mbps以上)
遅い 速い 速い (1Mbps以上)	遅い 速い 速い (1Mbps以上)	遅い 速い 速い (1Mbps以上)	遅い 速い 速い (1Mbps以上)

Fig. 7

- ① LED INDICATION
- ② COMMUNICATION RATE INDEX
- ③ RELIABILITY INDEX
- ④ SLOW (LOWER THAN 500 kbps)
- ⑤ MEDIUM (500 kbps TO 1 Mbps)
- ⑥ FAST (HIGHER THAN 1 Mbps)

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Fig. 8

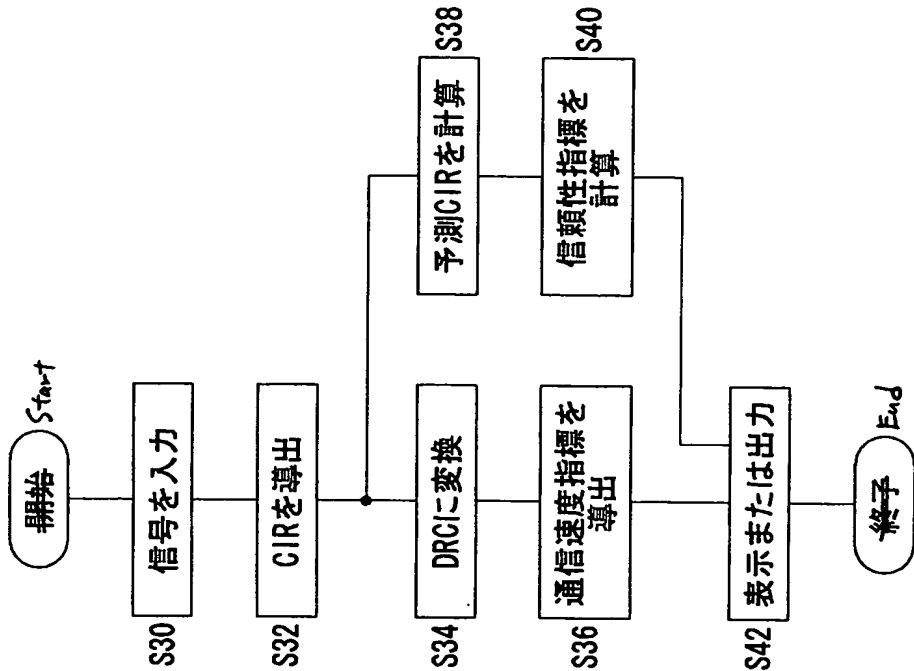


Fig. 8

S30: INPUT OF SIGNAL

S32: DERIVATION OF CIR

S34: CONVERSION INTO DRC

S36: DERIVATION OF COMMUNICATION RATE INDEX

S38: CALCULATION OF PREDICTIVE CIR

S40: CALCULATION OF RELIABILITY INDEX

S42: DISPLAY OR OUTPUT

Fig. 9

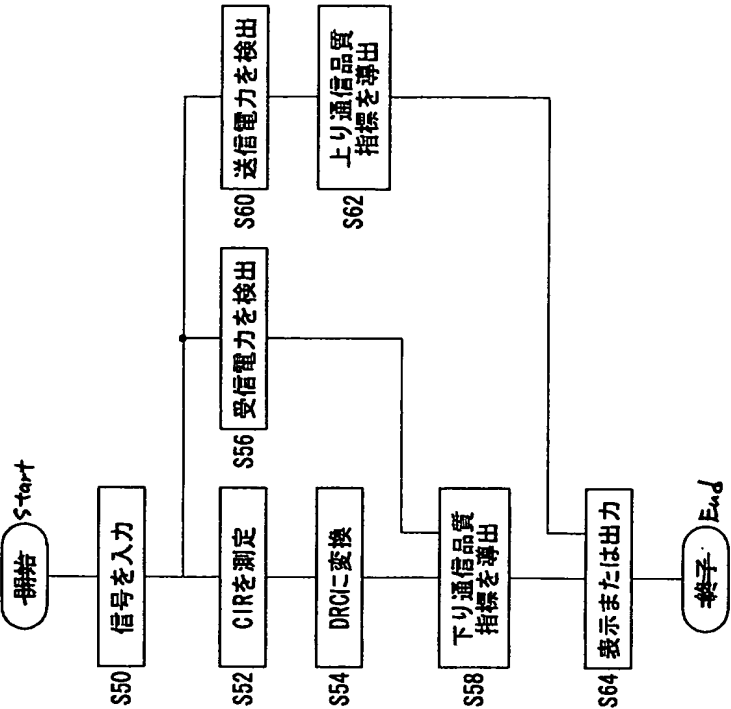


Fig. 9

S50: INPUT OF SIGNAL

S52: MEASUREMENT OF CIR

S54: CONVERSION INTO DRC

S56: DETECTION OF RECEPTION POWER

S58: DERIVATION OF DOWNSTREAM COMMUNICATION
QUALITY INDEX

S60: DETECTION OF TRANSMISSION POWER

S62: DERIVATION OF UPSTREAM COMMUNICATION QUALITY
INDEX

S64: DISPLAY OR OUTPUT

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Fig. 10

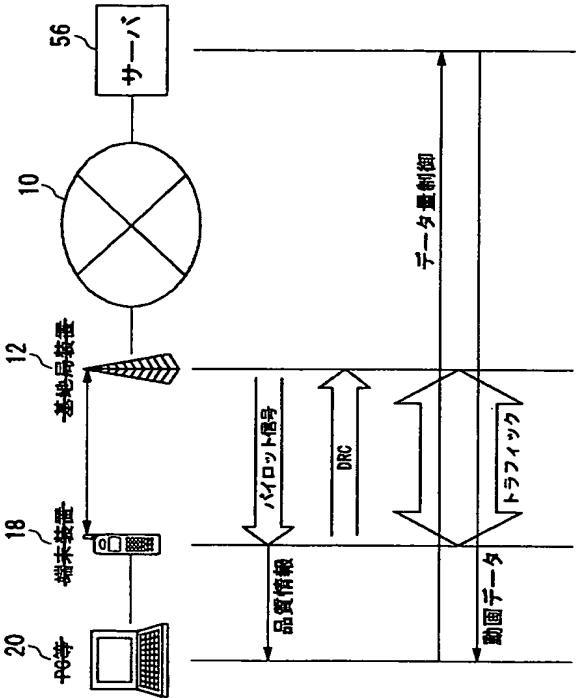
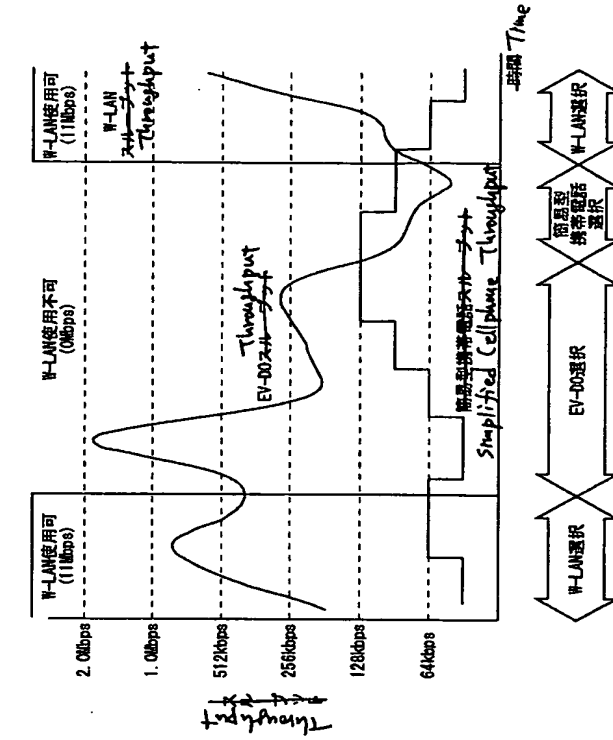


Fig. 10

- 56 SERVER
- ① QUALITY INFORMATION
- ② PILOT SIGNAL
- ③ MOVING PICTURE DATA
- ④ TRAFFIC
- ⑤ DATA AMOUNT CONTROL

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Fig. 11



- ① W-LAN IS USABLE (11 Mbps)
- ② W-LAN IS NOT USABLE (0 Mbps)
- ③ W-LAN IS USABLE (11 Mbps)
- ④ W-LAN IS SELECTED
- ⑤ EV-DO IS SELECTED
- ⑥ SIMPLIFIED CELLPHONE IS SELECTED
- ⑦ W-LAN IS SELECTED

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Fig. 12

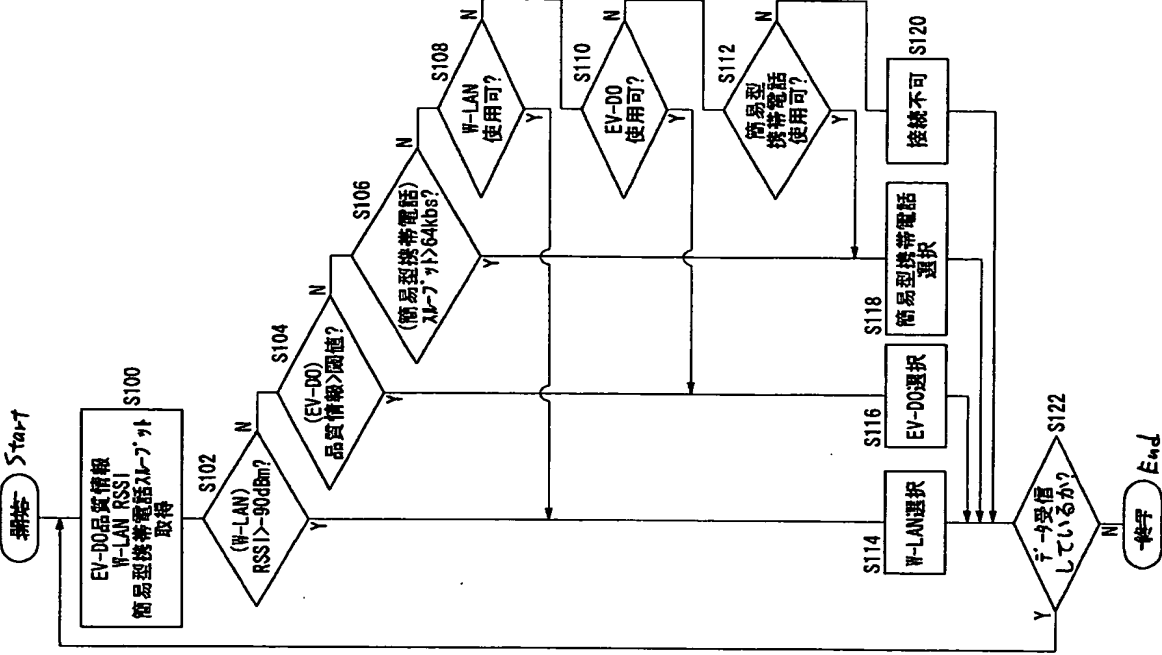


Fig. 12

S100: ACQUIRE QUALITY INFORMATION OF EV-DO,
RSSI OF W-LAN, AND THROUGHPUT OF SIMPLIFIED
CELLPHONE.

S102: RSSI > -90 dBm ? (W-LAN)

S104: QUALITY INFORMATION > THRESHOLDVALUE ? (EV-DO)

S106: THROUGHPUT > 64 kbps ? (SIMPLIFIED CELLPHONE)

S108: IS W-LAN USABLE?

S110: IS EV-DO USABLE?

S112: IS SIMPLIFIED CELLPHONE USABLE?

S114: SELECT W-LAN.

S116: SELECT EV-DO.

S118: SELECT SIMPLIFIED CELLPHONE.

S120: NO CONNECTION IS POSSIBLE.

S122: DATA ARE BEING RECEIVED?

図13 Fig. 13

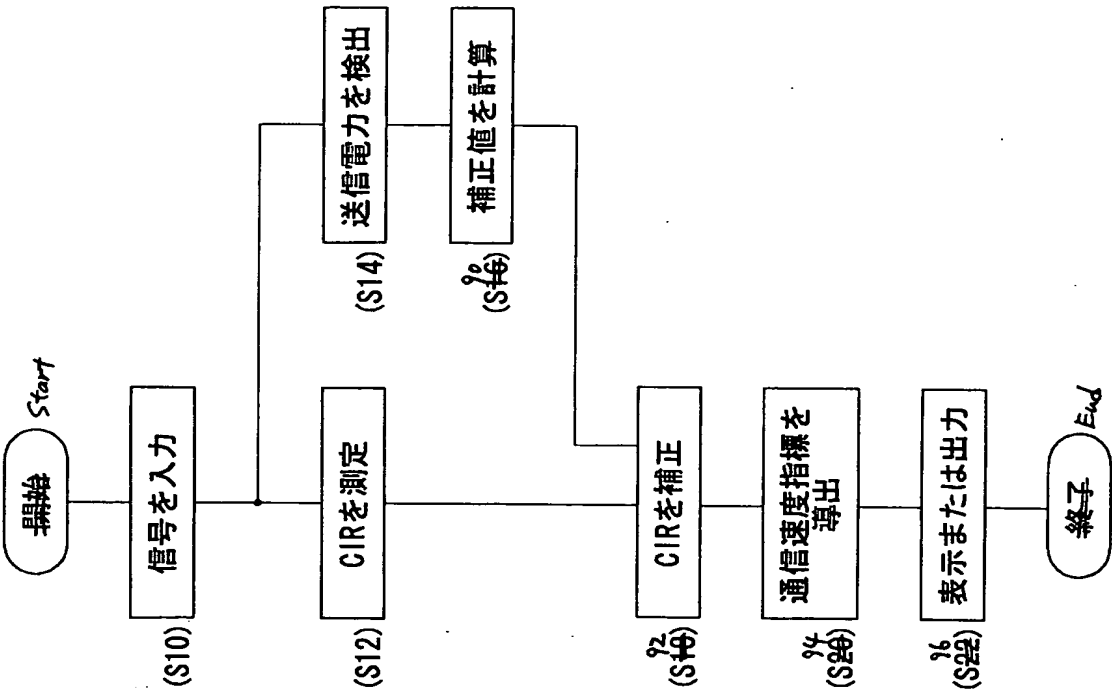
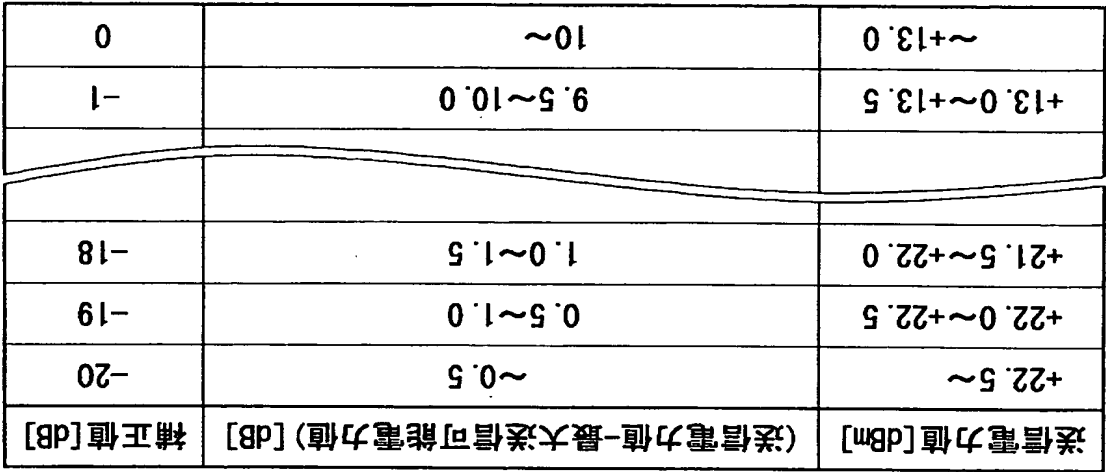


Fig. 13

- S10: INPUT OF SIGNAL
- S12: MEASUREMENT OF CIR
- S14: DETECTION OF TRANSMISSION POWER
- S16: CALCULATION OF CORRECTION VALUE
- S18: CORRECTION OF CIR
- S20: DERIVATION OF COMMUNICATION RATE INDEX
- S22: DISPLAY OR OUTPUT

Fig. 14



- ①: TRANSMISSION POWER VALUE (dBm)
- ②: [TRANSMISSION POWER VALUE] - [MAXIMUM TRANSMISSIBLE POWER VALUE] (dB)
- ③: CORRECTION VALUE (dB)

Fig. 15

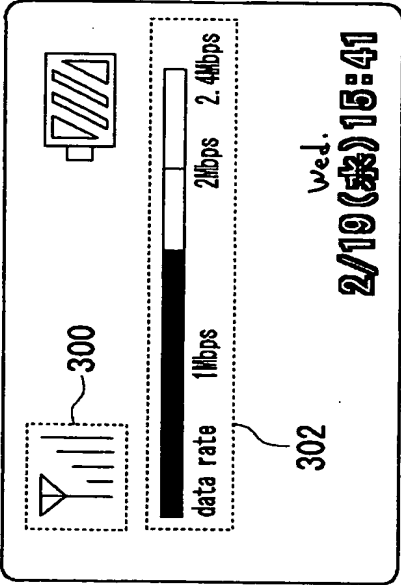
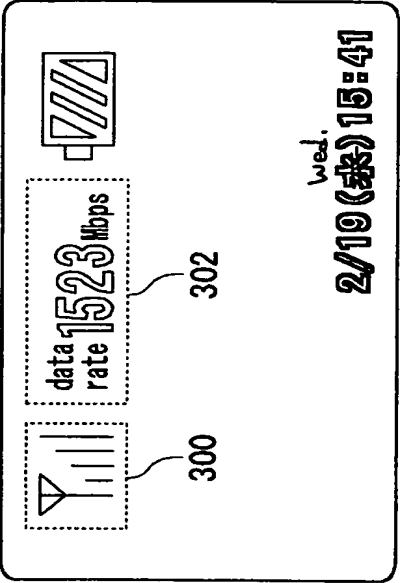


Figure 16

速度指標	LED表示	遅い (500kbps以下)	中 (500k~1Mbps)	速い (1Mbps以上)
消灯 off	点滅(1) Flashing	点滅(2) Flashing	点滅(2) Flashing	点滅 on

Fig. 16

- ①: LED INDICATION
- ②: COMMUNICATION RATE INDEX
- ③: SLOW (LOWER THAN 500 kbps)
- ④: MEDIUM (500 kbps TO 1 Mbps)
- ⑤: FAST (HIGHER THAN 1 Mbps)

Fig. 17

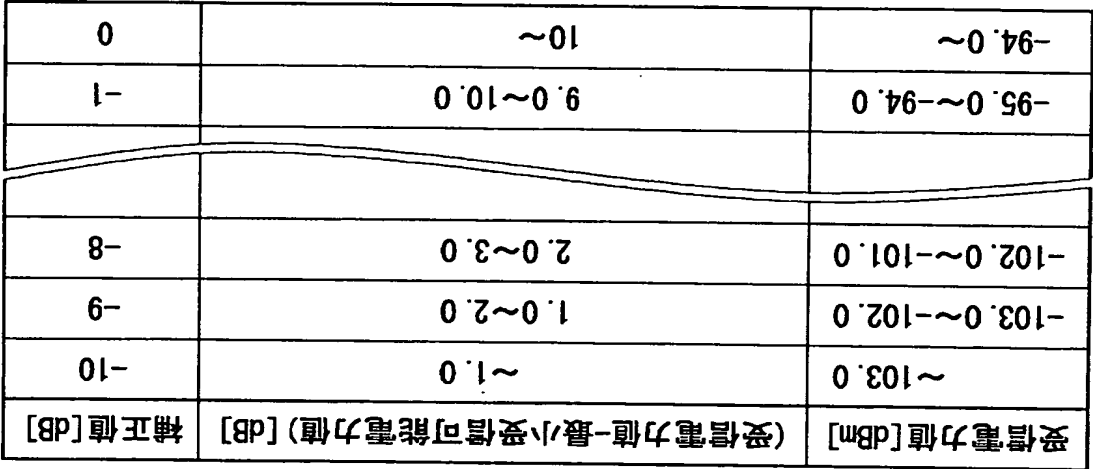


Fig. 17

- ①: RECEPTION POWER VALUE (dBm)
- ②: [RECEPTION POWER VALUE] - [MINIMUM RECEIVABLE POWER VALUE] (dB)
- ③: CORRECTION VALUE (dB)

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Fig. 18
フローチャート

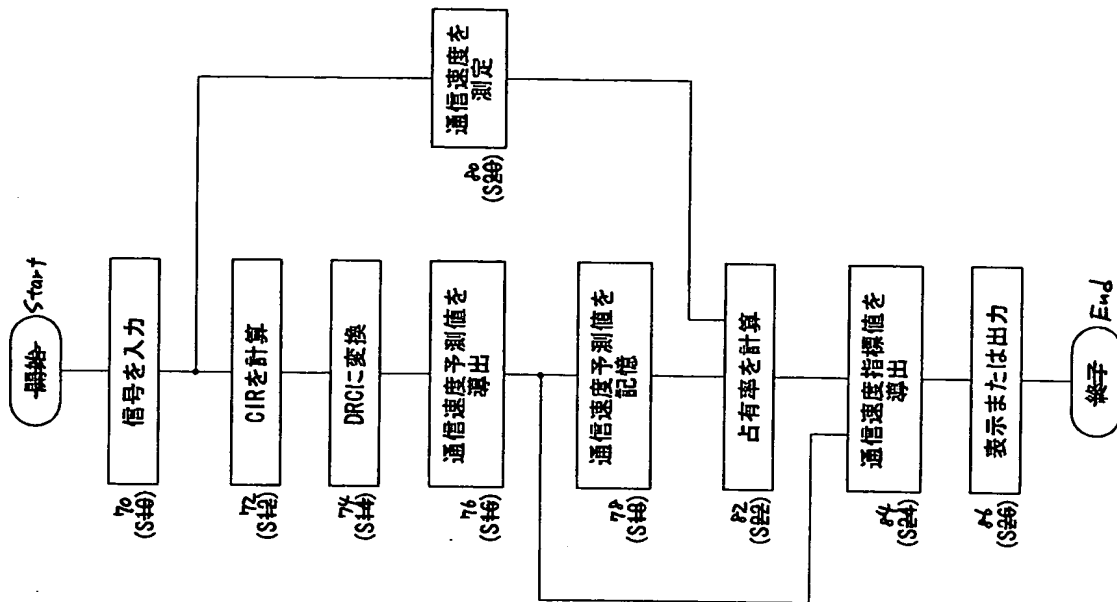


Fig. 18

- S70: INPUT OF SIGNAL
S72: CALCULATION OF CIR
S74: CONVERSION INTO DRC
S76: DERIVATION OF PREDICTED COMMUNICATION RATE
S78: STORAGE OF PREDICTED COMMUNICATION RATE
S80: MEASUREMENT OF COMMUNICATION RATE
S82: CALCULATION OF OCCUPATION RATIO
S84: DERIVATION OF COMMUNICATION RATE INDEX
S86: DISPLAY OR OUTPUT

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Fig. 19
~~Table 1~~

DRC value	Communication Rate	Packet Length
0x0	null rate	N/A
0x1	38.4	16
0x2	76.8	8
0x3	153.6	4
0x4	307.2	2
0x5	307.2	4
0x6	614.4	1
0x7	614.4	2
0x8	921.6	2
0x9	1228.8	1
0xa	1228.8	2
0xb	1843.2	1
0xc	2457.6	1
0xd	Invalid	N/A
0xe	Invalid	N/A
0xf	Invalid	N/A